Listing of the Claim:

Claims 1-41: (Cancelled.)

42.(Previously Presented) A non-volatile semiconductor memory device, comprising:

a memory array including a plurality of multi-level-cell memory cells, each memory cell comprising a storage element having a capacity to store N bits of logical data.

where $N \ge 2$, and each memory cell configured for 2^N distinct data storage levels, each of the 2^N data storage levels representative of a discrete N-bit combination of logical data; and

a staircase program-verify circuit for providing a staircase program-verify pulse electrically coupled to the memory array and capable of concurrently program-verifying the plurality of multi-level-cell memory cells and inhibiting programming of a memory cell programmed to substantially within a selected data storage level.

43.(Previously Presented) The device of claim 42, wherein the storage element comprises a semiconductor transistor having a programmable threshold voltage, V_t , within a continuous range from a lowest V_t value to a highest V_t value, the continuous range having 2^N distinct data storage levels including an erased level and 2^N -1 program levels, the 2^N -1 program levels including a lowest program level, at least one intermediate program level, and a highest program level.

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